

UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: MURAKAMI et al.  
Attorney Docket: 10873.1710USWO  
Title: MEMORY CELL, MEMORY USING THE MEMORY CELL,  
MEMORY CELL MANUFACTURING METHOD, AND MEMORY  
RECORDING/READING METHOD

**CERTIFICATE UNDER 37 CFR 1.10**

Express Mail mailing label number: EV 648467941 US

Date of Deposit: September 30, 2005

I hereby certify that the papers listed below are being deposited with the United States Postal Service Express Mail Post Office to Addressee service under 37 CFR 1.10 in an envelope addressed to: Mail Stop Application, Commissioner for Patents, P.O. Box 1450, Arlington, VA 22313-1450.

By: 

Name: Yuhgo Maruta

Mail Stop PCT  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**53148**

PATENT TRADEMARK OFFICE

Commissioner:

The following papers are transmitted herewith:

- ☒ Transmittal sheet, in duplicate, containing Certificate Under 37 CFR 1.10;
- ☒ National Stage Patent Application including: Description - 56 pages; 37 Claims - 7 pages; Abstract - 1 page; Drawings - 30 sheets (formal);
- ☒ Unsigned Combined Declaration and Power of Attorney;
- ☒ Application Data Sheet - 4 pages;
- ☒ Information Disclosure Statement, Form 1449, 2 references
- ☒ Check(s) for the amount of \$1850 to cover the filing fee calculated below;
- ☒ Other: Form PTO 1390, Communication regarding Figure Publication, International Publication Page WO 2004/088754 A1, Form PCT/ISA/237, Form PCT/ISA/210, Form PCT/IB/304, Form PCT/IB/308
- ☒ Return postcard

**CLAIMS AS FILED**

Number of Claims Filed	No.	In Excess of	Extra	Rate (\$)		Fee (\$)
<b>Total Claims</b>	37	20	17	50	=	850
<b>Independent Claims</b>	1	3	0	200	=	0
<b>Multiple Dependent Claims Fee</b>					=	0
<b>Basic Filing Fee</b>					=	300
<b>Search Fee</b>					=	500
<b>Examination Fee</b>					=	200
<b>Utility Application Size Fee</b>	94	100	0	250	=	0
<b>Total</b>					=	1850

Please charge any additional fees or credit overpayment to Deposit Account No. 50-3478. A duplicate of this sheet is enclosed.

Hamre, Schumann, Mueller & Larson, P.C.  
P.O. Box 2902-0902 Minneapolis, MN 55402  
612.455-3800

By: 

Name: Douglas P. Mueller

Reg. No. 30,300

Initials: DPM/acp

(PTO TRANSMITTAL - NEW FILING)

FORM PTO-1390  
(REV 10-94)

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

ATTORNEY'S DOCKET NUMBER

TRANSMITTAL LETTER TO THE UNITED STATES  
DESIGNATED/ELECTED OFFICE (DO/EO/US)  
CONCERNING A FILING UNDER 35 U.S.C. 371

10873.1710USWO

U.S. APPLICATION NO. (If known, see 37 C.F.R. 1.5)

Unknown **10/551500**

INTERNATIONAL APPLICATION NO.

PCT/JP2004/004650

INTERNATIONAL FILING DATE

March 31, 2004

PRIORITY DATE CLAIMED

March 31, 2003

## TITLE OF INVENTION

MEMORY CELL, MEMORY USING THE MEMORY CELL, MEMORY CELL MANUFACTURING METHOD, AND MEMORY RECORDING/READING METHOD

## APPLICANT(S) FOR DO/EO/US

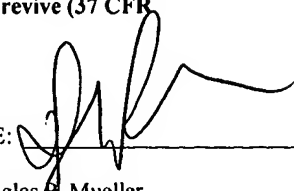
MURAKAMI et al.

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3. ☒ This express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(I).
4. ☐ A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.
5. ☒ A copy of the International Application as filed (35 U.S.C. 371(c)(2))
  - a. ☐ is transmitted herewith (required only if not transmitted by the International Bureau).
  - b. ☒ has been transmitted by the International Bureau.
  - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US)
6. ☐ A translation of the International Application into English (35 U.S.C. 371(c)(2)).
7. ☒ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
  - a. ☐ are transmitted herewith (required only if not transmitted by the International Bureau).
  - b. ☐ have been transmitted by the International Bureau.
  - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
  - d. ☒ have not been made and will not be made.
8. ☐ A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☒ An unsigned oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).
10. ☐ A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

## Items 11. to 16. below concern document(s) or information included:

11. ☒ An Information Disclosure Statement under 37 CFR 1.97 and 1.98, Form 1449, 2 references.
12. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13. ☐ A **FIRST** preliminary amendment.  
☐ A **SECOND** or **SUBSEQUENT** preliminary amendment.
14. ☐ A substitute specification.
15. ☐ A change of power of attorney and/or address letter.
16. ☒ Other items or information: Application Data Sheet (4 sheets), 30 sheets of formal drawings, Communication regarding Figure Publication, International Publication Page WO 2004/088754 A1, Form PCT/ISA/237, Form PCT/ISA/210, Form PCT/IB/304, Form PCT/IB/308

U.S. APPLICATION NO. (if known, see 37 C.F.R. 1.5) Unknown <b>10/551 500</b>		INTERNATIONAL APPLICATION NO. PCT/JP2004/004650		ATTORNEY'S DOCKET NUMBER 10873.1710USWO	
<b>BASIC NATIONAL FEE (37 CFR 1.492(a) (1)-(5)):</b>					
[X] a) Basic National fee.....\$300				\$300	
[X] b) Examination fee.....\$200				\$200	
[X] c) Search fee.....\$500				\$500	
<b>TOTAL OF ABOVE CALCULATIONS =</b>				<b>\$1000</b>	
Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.					
Total Sheets	Extra Sheets	Number of each additional set of 50 sheets, more than 100 sheets	Rate		
94 - 100 =	0 / 50 =	0	X \$250	\$0	
Surcharge of \$130 for furnishing the oath or declaration later than [ ] 20 [ ] 30 months from the earliest claimed priority date (37 CFR 1.492(e)).				\$0	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE		
Total claims	37 - 20 =	17	X \$50	\$850	
Independent claims	1 - 3 =	0	X \$200	\$0	
MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ \$360	\$0	
<b>TOTAL OF ABOVE CALCULATIONS =</b>				<b>\$1850</b>	
Reduction by 1/2 for filing by small entity, if applicable. Small entity status is claimed pursuant to 37 CFR 1.27				\$0	
<b>SUBTOTAL =</b>				<b>\$1850</b>	
Processing fee of \$130 for furnishing the English translation later than [ ] 20 [ ] 30 months from the earliest claimed priority date (37 CFR 1.492(f)).				+ \$0	
<b>TOTAL NATIONAL FEE =</b>				<b>\$1850</b>	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property				+ \$0	
<b>TOTAL FEES ENCLOSED =</b>				<b>\$1850</b>	
				Amount to be: refunded	\$0
				charged	\$0
<p>a. [X] Check(s) in the amount of \$1850 to cover the above fees is enclosed.</p> <p>b. [ ] Please charge the amount of \$ to cover the required filing fee for a large entity to the credit card listed on the enclosed credit card authorization form.</p> <p>c. [X] The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 50-3478.</p>					
<p><b>NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.</b></p>					
<p>SEND ALL CORRESPONDENCE TO:          Douglas P. Mueller          Hamre, Schumann, Mueller &amp; Larson, P.C.          P.O. Box 2902-0902          Minneapolis, MN 55402</p>					
				SIGNATURE: 	
				NAME: Douglas P. Mueller	
				REGISTRATION NUMBER: 30,300	

10/551500

JCO9 Rec'd PCT/PTO 30 SEP 2005

S/N Unknown

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: MURAKAMI et al. Serial No.: Unknown  
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By: 

Name: Yuhgo Maruta

COMMUNICATION REGARDING REQUESTED FIGURE

Mail Stop PCT  
Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

Dear Commissioner:

In connection with the above-identified application, applicant respectfully requests that Figure 4 be printed on the front page of the published application.

If a telephone conference would be helpful in resolving any issues concerning this communication, please contact Applicants' primary attorney-of record Douglas P. Mueller (Reg. No. 30,300), at (612) 455.3804.

Respectfully submitted,

HAMRE, SCHUMANN, MUELLER &  
LARSON, P.C.

P.O. Box 2902-0902  
Minneapolis, MN 55402-0903  
(612) 455-3800

**53148**

PATENT TRADEMARK OFFICE

Dated: September 30, 2005

By: 

Douglas P. Mueller  
Reg. No. 30,300  
DPM/acp